

# 7144

Diag'd. on diag. ch. No. 9198-1

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. SU-2246 Office No. H- 7144

### LOCALITY

State Alaska

General locality Near Islands

Locality N.W. Coast Of Agattu Island

194 6

CHIEF OF PARTY

A. P. RATTI

LIBRARY & ARCHIVES

DATE AUG 29 1947

7144

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. 47144

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. SU 2246

REGISTER NO. H-7144

State Alaska

General locality Near Islands, Aleutian Is.

Locality N.W. Coast Agattu Island

Scale 1:20,000 Date of survey 28 May to 9 Sept., 19 46

Vessel SURVEYOR & Launches Nos 2 and 4

Chief of Party A. P. Ratti

Surveyed by Ship's Officers

Protracted by L. W. Eason

Soundings penciled by L. W. Eason

Soundings in fathoms feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by J. M. Zeskind

Verified by J. M. Zeskind

Instructions dated 3 February 1938, 21 March 1946, 19

Remarks: Smooth Sheet and Plotting by Seattle Processing Office

DESCRIPTIVE REPORT

To ACCOMPANY

HYDROGRAPHIC SURVEY H-7144, (FIELD NO. SU-2246)

NORTHWEST COAST of AGATTU ISLAND, ALEUTIAN ISLANDS

PROJECT CS-218 --- 1946

Scale: 1/20000

Chief of Party: A. P. Ratti, Commanding Ship SURVEYOR

Field Work by: Ship's Officers, Ship SURVEYOR

A. PROJECT:

Project CS-218, Original instructions dated February 3, 1938. Supplemental instructions issued by Liaison Officer, dated March 21, 1946. ✓

B. SURVEY LIMITS AND DATES:

This survey covers the area on the NW coast of Agattu Island from Patricia Point on the East to longitude  $173^{\circ} 19'$  on the West except for a small inshore area NE of Gillon Point which is included with sheet H-7145 (SU-2146). To the North this survey extends to Latitude  $52^{\circ} 32'$ . Satisfactory junctions were made with the following surveys: H-7139 (EX-2146, Scale 1:20,000) on the East. H-7146 (SU-7146 Scale 1:40,000) on the North and West and H-7145 (SU-2146, Scale 1:20,000) on the SW corner. Field work was accomplished between May 28 and September 9, 1946. ✓

C. VESSELS AND EQUIPMENT:

The hydrography was done using the Ship SURVEYOR and Launches Nos. 2 and 4 operating from the Ship. All soundings were obtained using 808 type recorders Nos. 47-S, 104-S, and 52. ✓

D. TIDE AND CURRENT STATIONS:

Tidal data were obtained from the standard tide gage at Massacre Bay direct, and from the portable automatic tide gage established by the Ship EXPLORER at Otkriti Bay, Agattu Island. ✓

No current stations were occupied. ✓

E. SMOOTH SHEET:

The smooth sheet will be constructed and plotted by personnel of the Seattle Processing Office. ✓

F. CONTROL STATIONS:

Triangulation control used in this survey was established by the Ship DERICKSON in 1945 and the Ship SURVEYOR in 1946. Additional stations were established by graphic control, see Sheet SU-A-46 and Sheet EX-D-46/.

T 7038a

T 7032b

G. SHORELINE AND TOPOGRAPHY:

The shoreline and topography of this area will be taken from air photos supplemented by topographic sheets SU-A-46 and EX-D-46.

T 7032-b

T 7033-a

H. SOUNDINGS:

All soundings were obtained by standard methods.

I. CONTROL OF HYDROGRAPHY:

Sounding lines were controlled by sextant fixes on shore objects.

J. ADEQUACY OF SURVEY:

This survey is considered adequate for the area covered. Development was carried as close inshore as was permitted by the numerous rocks and heavy kelp beds.

See Review  
Par. 9.

K. CROSSLINES:

About 77 crosslines were run. The crossings are satisfactory.

L. COMPARISON WITH PRIOR SURVEYS:

There have been no prior surveys of this area.

M. COMPARISON WITH CHART:

There are no existing large scale charts of this area.

N. DANGERS AND SHOALS:

None

O. COAST PILOT INFORMATION:

See Coast Pilot Report, Aleutian Islands, 1946.

P. AIDS TO NAVIGATION:

None.

Q. LANDMARKS FOR CHARTS:

None.

S. SILTED AREAS:

None.

Z. TABULATION OF APPLICABLE DATA:

Tide Observations- Tabulated by personnel of Ship EXPLORER.  
Velocity Corrections-Compiled by personnel of Ship EXPLORER.  
Coast Pilot Report-Forwarded to Washington Office.

Respectfully submitted,

*Henry O. Fortin*  
HENRY O. FORTIN,  
Lt. Comdr., C. & G. Survey

Approved;

*A. P. Ratti*

A. P. RATTI  
Comdr., C. & G. Survey  
Commanding Ship SURVEYOR

Note: Registry Nos. given in Review, par. 1.

SIGNALS SHEET SU- 2246, H- 7144

Name	Origin	Name	Origin
Abe	SU-A-46	May	SU-A-46
Act	EX-D-46	Meria	Meria 1945 DE
Air	SU-A-46	Mob	SU-A-46
Arm	Arm 1943 (USN)	Molar	SU 2246 Vol 5 & 6
Bac	SU-2246 Vol 4	Moo	SU-A-46
Bag	SU-A-46	Mut	EX-D-46
Bat	"	Nab	"
Bed	"	Nan	SU-A-46
Bet	EX-D-46	Nile	Nile 1946 SU
Bil	SU-A-46	Nob	SU-A-46
But	"	Nub	"
Cab	"	Nut	"
Cat	"	Oak	"
Cob	"	Ode	"
Cod	"	Oil	"
Cue	EX-D-46	Orb	EX-D-46
Cut	SU-A-46	Out	SU-A-46
Dad	"	Pat	Pat 1944
Dal	EX-D-46	Pep	SU-A-46
Doc	SU-A-46	Pot	"
Egg	"	Rag	"
Ego	"	Ren	"
Eke	EX-D-46	Rum	"
End	End 1946 SU	Sad	"
Era	Era 1944	Sail	EX-D-46
Fat	SU-A-46	See	SU-A-46
Fed	"	Sir	SU-A-46
Fie	EX-D-46	Sot	EX-D-46
Flag	Flag 1946 SU	Sox	SU-A-46
Fog	SU-A-46	Sow	"
Gap	"	Tom	"
Gem	"	Tug	"
Gil	"	Tum	EX-D-46
Glo	EX-D-46	Vag	"
Gal	"	Van	SU-A-46
Has	SU-A-46	Vex	"
How	"	Viol	EX-D-46
Hun	EX-D-46	Wac	"
Inter	Inter 1945 DE	War	SU-A-46
Irk	SU-A-46	Wax	"
Jap	"	Win	"
Jar	"	Wit	SU-A-46
Jay	"	You	EX-D-46
Jil	EX-D-46	Zag	SU-A-46
Ken	SU-A-46	Zip	EX-D-46
Kit	"	Zoo	SU-A-46
King	"	Zor	EX-D-46
Law	"		
Leg	"		
Leo	"		
Lip	"		
Lion	Lion 1946 SU		
Loc	EX-D-46		
Mass	Mass 1946 SU		

DRAFT & INSTRUMENTAL CORRECTIONS SHIP SURVEYOR

Season 1946

Alentian Islands  
Near Islands Grp.

Date	Osc. Draft Fathoms	MNC Rec.		808 Initial 2.0 Fms.				808 Initial 2.0 Fms.				808 Initial 2.0 Fms.			
		Light Init. 2.0 Fathoms	(Graph) Init. 0.0 Fathoms	A-Scale	B-Scale	C-Scale	D-Scale	A-Scale	B-Scale	C-Scale	D-Scale	A-Scale	B-Scale	C-Scale	D-Scale
5/25/46	+ 2.3	0.00	+ 2.4	+0.7	+0.2	+ 0.6	+0.8	+0.3	-0.5	+0.3	+0.3	+0.3	+ 0.3	0.0	
5/26/46	2.3	0.00	2.4	0.7	0.2	0.6	0.8	0.3	0.5	0.3	0.3	0.3	0.3	0.0	
5/27/46	2.2	- 0.1	2.3	0.6	0.1	0.5	0.7	0.2	0.6	0.2	0.2	0.2	0.2	-0.1	
5/28/46	2.2	- 0.1	2.3	0.6	0.1	0.5	0.7	0.2	0.6	0.2	0.2	0.2	0.2	-0.1	
5/30/46	2.2	- 0.1	2.3	0.6	0.1	0.5	0.7	0.2	0.6	0.2	0.2	0.2	0.2	-0.1	
5/31/46	2.2	+ 0.1	2.5	0.8	0.3	0.6	0.9	0.4	0.4	0.4	0.4	0.4	0.4	+0.1	
6/6/46	2.4	0.0	2.4	0.7	0.2	0.6	0.8	0.3	0.5	0.3	0.3	0.3	0.3	0.0	
6/14/46	2.3	0.0	2.3	0.6	0.1	0.5	0.7	0.2	0.6	0.2	0.2	0.2	0.2	-0.1	
6/20/46	2.2	- 0.1	2.3	0.6	0.1	0.5	0.7	0.2	0.6	0.2	0.2	0.2	0.2	-0.1	
7/3/46	2.3	0.0	2.4	0.7	0.2	0.6	0.8	0.3	0.5	0.3	0.3	0.3	0.3	0.0	
7/23/46	2.4	+ 0.1	2.5	0.8	0.3	0.7	0.9	0.4	0.4	0.4	0.4	0.4	0.4	+0.1	
7/24/46	2.3	0.0	2.4	0.7	0.2	0.6	0.8	0.3	0.5	0.3	0.3	0.3	0.3	0.0	
7/28/46	2.2	- 0.1	2.3	0.6	0.1	0.5	0.7	0.2	0.6	0.2	0.2	0.2	0.2	-0.1	
7/29/46	2.2	- 0.1	2.3	0.6	0.1	0.5	0.7	0.2	0.6	0.2	0.2	0.2	0.2	-0.1	
7/31/46	2.2	- 0.1	2.1	0.6	0.1	0.5	0.7	0.2	0.6	0.2	0.2	0.2	0.2	-0.1	
8/26/46	2.0	- 0.3	2.1	0.4	-0.1	0.3	0.5	0.0	0.8	0.0	0.0	0.0	0.0	-0.3	
8/27/46	2.0	+ 0.3	2.5	0.4	0.1	0.3	0.5	0.0	0.8	0.0	0.0	0.0	0.0	-0.3	
8/28/46	2.4	+ 0.1	2.4	0.8	0.3	0.7	0.9	0.4	0.4	0.4	0.4	0.4	0.4	+0.1	
8/30/46	2.3	0.0	2.5	0.7	0.2	0.6	0.8	0.3	0.5	0.3	0.3	0.3	0.3	0.0	
9/19/46	2.4	+ 0.1	2.3	0.8	0.3	0.7	0.9	0.4	0.4	0.4	0.4	0.4	0.4	+0.1	
9/26/46	2.2	- 0.1	2.3	0.6	0.1	0.5	0.7	0.2	0.6	0.2	0.2	0.2	0.2	-0.1	
9/27/46	2.2	- 0.1	2.3	0.6	0.1	0.5	0.7	0.2	0.6	0.2	0.2	0.2	0.2	-0.1	
10/1/46	2.4	+ 0.1	2.5	0.8	0.3	0.7	0.9	0.4	0.4	0.4	0.4	0.4	0.4	+0.1	
10/3/46	2.3	0.0	2.4	0.7	0.2	0.6	0.8	0.3	0.5	0.3	0.3	0.3	0.3	0.0	
10/5/46	2.3	0.0	2.4	0.7	0.2	0.6	0.8	0.3	0.5	0.3	0.3	0.3	0.3	0.0	

H-7144

(SU 2246)

Seattle Processing Office Notes

Smooth Sheet- The projection is hand made on unembossed Paragon Paper, K & E N-118. Except for small bits of the shore from graphic control sheets, no shoreline is shown. No accurate shoreline will be available until the photogrammetric compilation is made from photographs inspected during the 1946 season. (Photographs compiled on graphic control sheets in 1947 and work transferred to smooth sheet.)

Signal SIR-

The cuts for this location are in volumes 5 & 6. This signal was confused with topographic signal FACE on the inshore boat sheet, the name SIR on the boat sheet being applied to the planetable position of FACE. In the inshore work, poor crossings were obtained when plotted on the position for FACE, which became satisfactory when plotted on hydro signal SIR, also the positions on FACE did not fit with time and course. The planetable position of FACE does not appear on the smooth sheet. ✓

Dangers-

Within the surveyed area no dangers were found if the shore is given a reasonable berth. In Armeria Bay additional development is desirable around the 6.1 fm. sounding at Lat. 52° 27' 16" Long. 173° 28' 19" and the 8.7 fms. at Lat. 52° 27' 17" Long. 173° 28' 17". Note the 5.3 fms. at Lat. 52° 27' 5" Long. 173° 28' 5".

Listed in Review Par. 9)

.58' .88'

48' 48'

48 Fm. Bank-

The area within the 50 fm. curve at Lat. 52 30.8 Long. 173 24.0 was developed on H-7146. Depths of 48 fms. were found over the interior of this space.

Respectfully submitted,

*Edgar E. Smith*  
Edgar E. Smith  
Capt. Engr., Seattle Processing  
Office



STATISTICS FOR HYDROGRAPHIC SURVEY H-7144

PROJECT CS-218

Launch #2, Ship SURVEYOR

DAY	DATE	VOL. NO.	NO. PSNS.	STATUTE MILES OF SOUNDINGS
a	31 May 1946	1	73	17.3
b	13 June 1946	1	140	31.6
c	14 June 1946	1	8	1.7
d	16 August 1946	1	146	35.8
e	23 August 1946	2	164	34.8
f	30 August 1946	2	90	18.7
g	9 Sept 1946	2-3	<u>174</u>	<u>32.5</u>
			795	172.4
Area square statute miles-----				11.9

\*\*\*\*\*

Launch #4, Ship SURVEYOR

DAY	DATE	VOL. NO.	NO. PSNS.	STATUTE MILES OF SOUNDINGS
a	24 August 1946	4	92	23.8
b	30 August 1946	4	85	17.4
c	9 Sept. 1946	4	82	18.0
			<u>259</u>	<u>59.2</u>

Area, Square statute miles----- 4.9

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Ship SURVEYOR.

DAY	DATE	VOL. NO.	NO. PSNS.	STATUTE MILES OF SOUNDINGS
A	28 May 1946	5	57	25.6
B	30 May 1946	5	201	104.5
C	31 May 1946	6	138	68.9
D	6 June 1946	6	41	19.8
E	14 June 1946	6	<u>28</u>	<u>13.2</u>
			465	232.0

Area, Square statute miles-----48.3

GRAND TOTALS-----1519 463.6 65.1

HYDROGRAPHIC SURVEY H- 7144

TIDAL DATA

Tide reducers were obtained from the following tide gages.

1. Massacre Bay, Attu Island, Standard Automatic Tide Gage.

Latitude 52° 50.5' N  
Longitude 173° 11.6' E

Mean lower low water was used as the plane of reference and is 3.4 feet above the zero mark of the tide staff.

No time or height differences were applied in obtaining reducers from this gage.

2. Otkriti Bay, Agattu Island, Portable Automatic Tide Gage.

Latitude 52° 23.1' N  
Longitude 173° 38.0' E

Mean lower low water was used as the plane of reference and is 4.1 feet above the zero mark of the tide staff.

No time or height differences were applied in obtaining reducers from this gage.

Hourly heights from the above gages were tabulated by personnel of the Ship EXPLORER.

Tide reducers have been entered and checked.

SUMMARY

Massacre Bay Tides Used

" D " and " E " days (Ship)

b, c, d, e, f, and g days, Launch #2

a, b, c days, Launch #4

Otkriti Bay Tides Used

" a " " b " " c " days ( Ship)

" a " day, Launch #2

None, Launch #4

H-7144

(SU 2246)

Northwest part Agattu I.

Agattu Island

Gillon Point

West Cove (~~North Hand Cove~~) (West Cove is used  
in new coast pilot)

Armeria Point

Armeria Bay

Patricia Point

Patricia Bight

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7144

FIELD NO. SU-2246

Alaska, Aleutian Islands, N.W. Coast of Agattu  
Surveyed in May to September, 1946      Scale 1:20,000  
Project No. CS-218

Soundings:

808 Fathometer

Control:

Three-point fixes on shore  
signals

Chief of Party - A. P. Ratti  
Surveyed by - J. E. Waugh, K. B. Jeffers, H. J. Healy,  
F. J. Bryant, W. Page and H. A. Paton  
Protracted by - L. W. Eason  
Soundings plotted by - L. W. Eason  
Verified and inked by - I. M. Zeskind  
Reviewed by - I. M. Zeskind, February 8, 1948  
Inspected by - H. W. Murray

1. Shoreline and Signals

Shoreline and rock detail are from air-photo compila-  
tions which were superimposed on graphic control surveys  
Nos. T-7032b and T-7033a in this Office in 1947.

Signal control originates with the above mentioned  
graphic control surveys.

Hydrographic signals originate with sextant fixes re-  
corded in the sounding records.

2. Sounding Line Crossings

Depths at crossings are in adequate agreement.

3. Depth Curves and Bottom Configuration

Depth curves could be adequately drawn except in foul inshore areas.

The bottom inshore from the 30-fathom curve is very irregular. In this area, numerous shoals and pinnacles rise abruptly from deeper depths.

A submarine ridge extends across the northwest portion of the survey. The area enclosed within the 50-fm. curve (lat.  $52^{\circ} 30.84'$ , long.  $173^{\circ} 24.0'$ ) was developed on H-7146 (1946). The least depth on this shoal is 49-fm.

4. Junctions with Contemporary Surveys

An adequate junction was effected with H-7139 (1946) on the east.

The junctions on the north and west with H-7146 (1946) and on the southwest with H-7145 (1946) will be considered in the reviews of these surveys.

5. Comparison with Prior Surveys

H-6936 (1943), scale 1:100,000

This is a small scale reconnaissance survey. The present large scale survey is sufficiently developed in the area common to the two surveys to reveal all the essential hydrographic data and should, therefore, supersede H-6936.

6. Comparison with Chart 9198 (Latest print date 6/16/47)

A. Hydrography

The charted hydrography originates with advance information from present surveys of 1943-1946 shown on Bp. 42073.

This advance information was subjected to revision in the Processing Office and during verification. The charted hydrography is, therefore, completely superseded by the present survey.

B. Aids to Navigation

There are no aids to navigation within the limits of the present survey.

7. Condition of Survey

The protracting and plotting of the sounding records were in compliance with the requirements of the Hydrographic Manual.

The Descriptive Report is complete and adequate.

8. Compliance with Instructions for the Project


The survey complies with the Instructions except that no hand lead development was made to check critical soundings in several inshore kelp areas. (See paragraph 9 of this review).

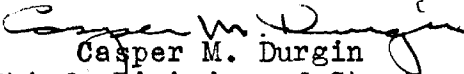
9. Additional Field Work Recommended

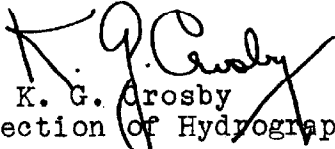
This is a very good basic survey; however, development of the following shoals is recommended:

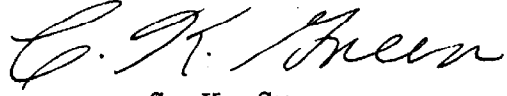
<u>Shoal</u>	<u>Latitude</u>	<u>Longitude</u>
6.1 fathom	52° 27.58'	173° 28.88'
8.7 "	52° 27.70'	173° 28.47'
19.4 "	52° 30.54'	173° 36.00'

Examined and approved:

  
I. E. Rittenburg  
Chief, Nautical Chart Branch

  
Casper M. Durgin  
Chief, Division of Charts

  
K. G. Crosby  
Chief, Section of Hydrography

  
C. K. Green  
Chief, Division of Coastal Surveys

GEOGRAPHIC NAMES

Survey No.

**H 144**

Name on Survey

	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
<u>Alaska</u>			(for title)							1
<u>Aleutian Islands</u>			"	"						2
<u>Near Islands</u>			"	"						3
<u>Agattu Island</u> 200 # 1								USGB		4
<u>Gillon Point</u>								"		5
<u>West Cove</u>										6
<u>Armeria Point</u>								USGB		7
<u>Armeria Bay</u>								"		8
<u>Patricia Point</u>								"		9
<u>Patricia Bight</u>								"		10
										11
										12
										13
										14
<u>Massacre Bay</u>		)						USGB		15
<u>Otkriti Bay</u>		)		tide staff locations				"		16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red are approved. 2/18/48. L. Heck

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. **H.7144.**

Records accompanying survey:

Boat sheets <sup>2</sup>.....; sounding vols. <sup>6</sup>.....; wire drag vols. <sup>0</sup>.....;  
bomb vols. <sup>0</sup>.....; graphic recorder rolls <sup>15</sup>.....;  
special reports, etc. <sup>0</sup>.....  
.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet		1519
Number of positions checked		104
Number of positions revised		14
Number of soundings revised (refers to depth only)		20
Number of soundings erroneously spaced		80
Number of signals erroneously plotted or transferred		0
Topographic details	Time	33
Junctions	Time	4
Verification of soundings from graphic record	Time	3
Verification by <i>J. Jeskeid</i>	Total time	204
	Date	Feb. 3, 1948
Reviewed by <i>J. Jeskeid</i>	Time	35
	Date	Feb. 8, 1948



RHC

# TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

29 Sept. 1947

Division of Charts: H. W. MURRAY

Plane of reference approved in  
6 volumes of sounding records for

HYDROGRAPHIC SHEET 7144

Locality - Northwest Coast of Agattu Island, Aleutian Islands, Alaska

Chief of Party: A. P. Ratti in 1946  
Plane of reference is mean lower low water, reading  
4.1 ft. on tide staff at Otkriti Bay  
5.5 ft. below B. M. 1 (1946)  
3.5 ft. on tide staff at Massacre Bay  
6.6 ft. below B. M. 1 (1943)

Height of mean high water above plane of reference is 3.4 feet.

Condition of records satisfactory except as noted below:

*E. C. McKay*  
*Section*  
Chief, ~~Division~~ of Tides and Currents.

# NAUTICAL CHARTS BRANCH

SURVEY NO. 87144

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/30/48	9147	J. A. McGinn	<del>Before</del> <u>After</u> Verification and Review
5-17-63	8865	Ed Broganje	<del>Before</del> After Verification and Review Exam Pathways Revised 17 Sunday & 2 weeks
10-20-92	16423	Ed Mont	<del>Before</del> After Verification and Review Saw Chart
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.